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<400> 2

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 35 40 45

Ser Met Tyr Ser Phe Ala Gly Asp Cys Ser Tyr Leu Leu Ala Gly Asp  
 50 55 60

Cys Gln Glu His Ser Ile Ser Leu Ile Gly Gly Phe Gln Asn Asp Lys  
 65 70 75 80

Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu  
 85 90 95

Phe Val Asn Gly Thr Met Leu Gln Gly Thr Gln Ser Ile Ser Met Pro  
 100 105 110

Tyr Ala Ser Asn Gly Leu Tyr Leu Glu Ala Glu Ala Gly Tyr Tyr Lys  
 115 120 125

Leu Ser Ser Glu Ala Tyr Gly Phe Val Ala Arg Ile Asp Gly Asn Gly  
 130 135 140

Asn Ile Gln Val Leu Leu Ser Asp Arg Tyr Ile Asn Lys Thr Tyr Gly  
 145 150 155 160

Leu Cys Gly Asn Phe Asn Ile Phe Ala Gln Asp Asp Phe Lys Thr Gln  
 165 170 175

Glu Gly Thr Leu Thr Ser Asp Pro Tyr Asp Phe Ala Asn Ser Trp Ala  
 180 185 190

Ser Ser Asp Gly Gln Gln Asn Tyr Lys Arg Val Ser Ile Ile Ser Ser  
 195 200 205

Val Asp Pro Glu Pro Phe Val Ala Leu Cys Glu Arg Thr Leu Cys Thr  
245 250 255

Cys Val Gln Gly Met Glu Cys Pro Cys Ala Val Leu Leu Glu Tyr Ala  
260 265 270

Arg Ala Cys Ala Gln Gln Gly Ile Val Leu Tyr Gly Trp Thr Asp His  
275 280 285

Ser Val Cys Arg Pro Ala Cys Pro Ala Gly Met Glu Tyr Lys Glu Cys  
290 295 300

Val Ser Pro Cys Thr Arg Thr Cys Gln Ser Leu His Val Lys Glu Val  
305 310 315 320

Cys Gln Glu Gln Cys Val Asp Gly Cys Ser Cys Pro Glu Gly Gln Leu  
325 330 335

Leu Asp Glu Gly His Cys Val Gly Ser Ala Glu Cys Ser Cys Val His  
340 345 350

Ala Gly Gln Arg Tyr Pro Pro Gly Ala Ser Leu Leu Gln Asp Cys His  
355 360 365

Thr Cys Ile Cys Arg Asn Ser Leu Trp Ile Cys Ser Asn Glu Glu Cys  
370 375 380

Pro Gly Glu Cys Leu Val Thr Gly Gln Ser His Phe Lys Ser Phe Asp  
385 390 395 400

Asn Arg Tyr Phe Thr Phe Ser Gly Val Cys His Tyr Leu Leu Ala Gln  
405 410 415

Asp Cys Gln Asp His Thr Phe Ser Val Val Ile Glu Thr Val Gln Cys  
420 425 430

Ala Asp Asp Leu Asp Ala Val Cys Thr Arg Ser Val Thr Val Arg Leu  
435 440 445

Pro Gly His His Asn Ser Leu Val Lys Leu Lys Asn Gly Gly Gly Val  
445 450 455

Ser Met Asp Gly His Asp Ile Gln Ile Pro Leu Leu His Gly Arg Leu  
455 460 465 470

Arg Ile Gln His Thr Val Met Ala Ser Val Arg Leu Ser Tyr Gly His  
475 480 485

Asp Leu Gln Met Asp Ser Asp Thr Asn Gly Asn Leu Leu Val Thr Leu  
490 495

Leu Val Glu Asp Phe Gly Asn Ala Trp Lys Leu Leu Gly Ala Cys Glu  
545 550 555 560

Asn Leu Gln Lys Gln His Arg Asp Pro Cys Ser Leu Asn Pro Arg Gln  
565 570 575

Ala Arg Phe Ala Glu Glu Ala Cys Ala Leu Leu Thr Ser Ser Lys Phe  
580 585 590

Glu Pro Cys His Arg Ala Val Gly Pro Gln Pro Tyr Val Gln Asn Cys  
595 600 605

Leu Tyr Asp Val Cys Ser Cys Ser Asp Gly Arg Asp Cys Leu Cys Ser  
610 615 620

Ala Val Ala Asn Tyr Ala Ala Ala Val Ala Arg Arg Gly Val His Ile  
625 630 635 640

Ala Trp Arg Glu Pro Gly Phe Cys Ala Leu Ser Cys Pro Gln Gly Gln  
645 650 655

Val Tyr Leu Gln Cys Gly Thr Pro Cys Asn Met Thr Cys Leu Ser Leu  
660 665 670

Ser Tyr Pro Glu Glu Asp Cys Asn Glu Val Cys Leu Glu Ser Cys Phe  
675 680 685

Ser Pro Pro Gly Leu Tyr Leu Asp Glu Arg Gly Asp Cys Val Pro Lys  
690 695 700

Ala Gln Cys Pro Cys Tyr Tyr Asp Gly Glu Ile Phe Gln Pro Glu Asp  
705 710 715 720

Ile Phe Ser Asp His His Thr Met Cys Tyr Cys Glu Asp Gly Phe Met  
725 730 735

His Cys Thr Thr Ser Gly Gly Leu Gly Ser Leu Leu Pro Asn Pro Val  
740 745 750

Leu Ser Ser Leu Asn Tyr His Asn Ser Lys Arg Ser Leu Ser Tyr Asn  
755 760 765

Leu Ser Met Val Lys Leu Val Tyr Leu Ala Asp Asn Leu Asn Ala Gln  
765 770 775

Gly Leu Glu Cys Ala Lys Thr Cys Gln Asn Tyr Asp Leu Gln Cys Met  
780 785 790 795

Pro Ser Gly Tyr Val Ser Gly Cys Leu Tyr His Ala Gly Met Val Asn  
800 805 810 815

Cys Val Cys Arg Asp Arg Lys Trp Thr Cys Thr Asp His Val Cys Asp  
850 855 860

Ala Thr Cys Ser Ala Ile Gly Met Ala His Tyr Leu Thr Phe Asp Gly  
865 870 875 880

Leu Lys Tyr Leu Phe Pro Gly Glu Cys Gln Tyr Val Leu Val Gln Asp  
885 890 895

Tyr Cys Gly Ser Asn Pro Gly Thr Leu Arg Ile Leu Val Gly Asn Glu  
900 905 910

Gly Cys Ser Tyr Pro Ser Val Lys Cys Lys Lys Arg Val Thr Ile Leu  
915 920 925

Val Glu Gly Gly Glu Ile Glu Leu Phe Asp Gly Glu Val Asn Val Lys  
930 935 940

Lys Pro Met Lys Asp Glu Thr His Phe Glu Val Val Glu Ser Gly Gln  
945 950 955 960

Tyr Val Ile Leu Leu Leu Gly Lys Ala Leu Ser Val Val Trp Asp His  
965 970 975

Arg Leu Ser Ile Ser Val Thr Leu Lys Arg Thr Tyr Gln Glu Gln Val  
980 985 990

Cys Gly Leu Cys Gly Asn Phe Asp Gly Ile Gln Asn Asn Asp Phe Thr  
995 1000 1005

Ser Ser Ser Leu Gln Ile Glu Glu Asp Pro Val Asp Phe Gly Asn Ser  
1010 1015 1020

Trp Lys Val Asn Pro Gln Cys Ala Asp Thr Lys Lys Val Pro Leu Asp  
1025 1030 1035 1040

Ser Ser Pro Ala Val Cys His Asn Asn Ile Met Lys Gln Thr Met Val  
1045 1050 1055

Arg Ser Ser Cys Arg Ile Leu Thr Ser Arg Ile Phe Ile Arg Tyr Asn  
1060 1065 1070

Arg Leu Val Arg Ile Gln Ile Phe Leu Asp Ile Tyr Ile Tyr Arg Thr  
1075 1080 1085

Cys Ser Cys Gln Ser Ile Gly Asp Cys Thr Cys Phe Cys Asp Thr Ile  
1090 1095 1100

Ala Ala Tyr Arg His Val Tyr Ala Gln His Gly Lys Val Val Ala Ile  
1105 1110

Cys Pro Ile Thr Cys Gln His Pro Glu Pro Leu Ala Cys Pro Val Gln  
1155 1160 1165

Cys Val Glu Gly Cys His Ala His Cys Pro Pro Gly Lys Ile Leu Asp  
1170 1175 1180

Glu Leu Leu Gln Thr Cys Ile Asp Pro Glu Asp Cys Pro Val Cys Glu  
1185 1190 1195 1200

Val Ala Gly Arg Arg Leu Ala Pro Gly Lys Lys Ile Ile Leu Asn Pro  
1205 1210 1215

Ser Asp Pro Glu His Cys Gln Ile Cys Asn Cys Asp Gly Val Asn Phe  
1220 1225 1230

Thr Cys Lys Ala Cys Arg Glu Pro Gly Ser Val Val Val Pro Pro Thr  
1235 1240 1245

Asp Gly Pro Ile Gly Ser Thr Thr Ser Tyr Val Glu Asp Thr Ser Glu  
1250 1255 1260

Pro Pro Leu His Asp Phe His Cys Ser Arg Leu Leu Asp Leu Val Phe  
1265 1270 1275 1280

Leu Leu Asp Gly Ser Ser Lys Leu Ser Glu Asp Glu Phe Glu Val Leu  
1285 1290 1295

Lys Val Phe Val Val Gly Met Met Glu His Leu His Ile Ser Gln Lys  
1300 1305 1310

Arg Ile Arg Val Ala Val Val Glu Tyr His Asp Gly Ser His Ala Tyr  
1315 1320 1325

Ile Glu Leu Lys Asp Arg Lys Arg Pro Ser Glu Leu Arg Arg Ile Thr  
1330 1335 1340

Ser Gln Val Lys Tyr Ala Gly Ser Glu Val Ala Ser Thr Ser Glu Val  
1345 1350 1355 1360

Leu Lys Tyr Thr Leu Ile Ala Ile Phe Gly Lys Ile Arg Arg Ile Glu  
1365 1370 1375

Ala Ser Arg Ile Ala Leu Leu Leu Met Ala Ser His His Thr Ser Arg  
1375 1380 1385

Leu Ala Arg Asn Leu Val Arg Tyr Val Val Gly Leu Lys Lys Lys Lys  
1390 1395 1400

Val Ile Val Ile Thr Val Lys Ile Gly Ile His Ala Ser Leu Lys Ile  
1405 1410 1415



Leu Cys Asp Leu Ala Pro Glu Ala Pro Ala Pro Thr Gln His Pro Pro  
1460 1465 1470

Met Ala Gln Val Thr Val Gly Ser Glu Leu Leu Gly Val Ser Ser Pro  
1475 1480 1485

Gly Pro Lys Arg Asn Ser Met Val Leu Asp Val Val Phe Val Leu Glu  
1490 1495 1500

Gly Ser Asp Lys Ile Gly Glu Ala Asn Phe Asn Lys Ser Arg Glu Phe  
1505 1510 1515 1520

Met Glu Glu Val Ile Gln Arg Met Asp Val Gly Gln Asp Arg Ile His  
1525 1530 1535

Val Thr Val Leu Gln Tyr Ser Tyr Met Val Thr Val Glu Tyr Thr Phe  
1540 1545 1550

Ser Glu Ala Gln Ser Lys Gly Glu Val Leu Gln Gln Val Arg Asp Ile  
1555 1560 1565

Arg Tyr Arg Gly Gly Asn Arg Thr Asn Thr Gly Leu Ala Leu Gln Tyr  
1570 1575 1580

Leu Ser Glu His Ser Phe Ser Val Ser Gln Gly Asp Arg Glu Gln Val  
1585 1590 1595 1600

Pro Asn Leu Val Tyr Met Val Thr Gly Asn Pro Ala Ser Asp Glu Ile  
1605 1610 1615

Lys Arg Met Pro Gly Asp Ile Gln Val Val Pro Ile Gly Val Gly Pro  
1620 1625 1630

His Ala Asn Val Gln Glu Leu Glu Lys Ile Gly Trp Pro Asn Ala Pro  
1635 1640 1645

Ile Leu Ile His Asp Phe Glu Met Leu Pro Arg Glu Ala Pro Asp Leu  
1650 1655 1660

Val Leu Ala Asn Tyr Tyr Ser Gly Glu Gly Leu Gln Ile Ile Thr Leu  
1665 1670 1675 1680

Ser Pro Thr Ile Asp Tyr Ser Gln Pro Leu Asp Val Val Leu Leu Leu  
1685 1690 1695

Asp Gly Ser Ser Ser Ile Pro Ala Ser Tyr Phe Asp Glu Met Lys Ser  
1700 1705 1710

Phe Thr Lys Ala Ile Ile Ser Asn Ala Asn Ile Gly Ile Asn Leu Ile  
1715 1720 1725 1730

Met Gln Gln Glu Gly Gly Pro Ser Glu Ile Gly Asp Ala Leu Ser Phe  
1765 1770 1775

Ala Val Arg Tyr Val Thr Ser Glu Val His Gly Ala Arg Pro Gly Ala  
1780 1785 1790

Ser Lys Ala Val Val Ile Leu Val Thr Asp Val Ser Val Asp Ser Val  
1795 1800 1805

Asp Ala Ala Ala Glu Ala Ala Arg Ser Asn Arg Val Thr Val Phe Pro  
1810 1815 1820

Ile Gly Ile Gly Asp Arg Tyr Ser Glu Ala Gln Leu Ser Ser Leu Ala  
1825 1830 1835 1840

Gly Pro Lys Ala Gly Ser Asn Met Val Arg Leu Gln Arg Ile Glu Asp  
1845 1850 1855

Leu Pro Thr Val Ala Thr Leu Gly Asn Ser Phe Phe His Lys Leu Cys  
1860 1865 1870

Ser Gly Phe Asp Arg Val Cys Val Asp Glu Asp Gly Asn Glu Lys Arg  
1875 1880 1885

Pro Gly Asp Val Trp Thr Leu Pro Asp Gln Cys His Thr Val Thr Cys  
1390 1895 1900

Leu Pro Asp Gly Gln Thr Leu Leu Lys Ser His Arg Val Asn Cys Asp  
1905 1910 1915 1920

Arg Gly Pro Arg Pro Ser Cys Pro Asn Gly Gln Pro Pro Leu Arg Val  
1925 1930 1935

Glu Glu Thr Cys Gly Cys Arg Trp Thr Cys Pro Cys Val Cys Met Gly  
1940 1945 1950

Ser Ser Thr Arg His Ile Val Thr Phe Asp Gly Gln Asn Phe Lys Leu  
1955 1960 1965

His Gly Ser Tyr Ser Tyr Val Leu His His Asn Lys Ser Ser Arg Leu  
1970 1975 1980

Gln Val Ile Ser Gln Asn Gly Ala Tyr Ser Phe Gly Ala Lys Gln Thr  
1985 1990 1995 2000

Cys Met Lys Ser Ile Glu Val Lys His Asp Gly Leu Ser Val Glu Leu  
2005 2010 2015

His Ser Arg Met Ser Met Thr Val Asn Gly Arg Leu Val Ser Leu Leu

Asn Asn Glu Phe Gln Leu Gln Leu Ser Pro Arg Thr Phe Ala Ser Lys  
2065 2070 2075 2080

Thr Tyr Gly Leu Cys Gly Ile Cys Asp Glu Asn Gly Ala Asn Asp Phe  
2085 2090 2095

Ile Leu Arg Asp Gly Thr Val Thr Thr Asp Trp Lys Ala Leu Ile Gln  
2100 2105 2110

Glu Trp Thr Val Gln Gln Leu Gly Lys Thr Ser Gln Pro Val His Glu  
2115 2120 2125

Glu Gln Cys Pro Val Ser Glu Phe Phe His Cys Gln Val Leu Leu Ser  
2130 2135 2140

Glu Leu Phe Ala Glu Cys His Lys Val Leu Ala Pro Ala Thr Phe Tyr  
2145 2150 2155 2160

Ala Met Cys Gln Pro Asp Ser Cys His Pro Lys Lys Val Cys Glu Ala  
2165 2170 2175

Ile Ala Leu Tyr Ala His Leu Cys Arg Thr Lys Gly Val Cys Val Asp  
2180 2185 2190

Trp Arg Arg Ala Asn Phe Cys Ala Met Ser Cys Pro Pro Ser Leu Val  
2195 2200 2205

Tyr Asn His Cys Glu His Gly Cys Pro Arg Leu Cys Glu Gly Asn Thr  
2210 2215 2220

Ser Ser Cys Gly Asp Gln Pro Ser Glu Gly Cys Phe Cys Pro Pro Asn  
2225 2230 2235 2240

Gln Val Met Leu Glu Gly Ser Cys Val Pro Glu Glu Ala Cys Thr Gln  
2245 2250 2255

Cys Ile Ser Glu Asp Gly Val Arg His Gln Phe Leu Glu Thr Trp Val  
2260 2265 2270

Ile Ala His Ser Ile Cys Ser Leu Cys Thr Cys Leu Ser Gly Asn Lys  
2275 2280 2285 2290

Val Asn Tyr Thr Leu Ser Ile Cys Ile Thr Ala Tyr Ala Ile Thr Cys  
2295 2300 2305 2310

Gly Pro Cys Gln Val Ala Arg Leu Arg Gln Asn Ala Val Gln Tyr Cys  
2315 2320 2325 2330

Ile Gln Tyr Ser Tyr Thr Cys Arg Leu Val Ser Tyr Arg Leu Ile Ile

Arg Glu Ser Pro Pro Ser Cys Pro Pro His Arg Thr Pro Ala Leu Arg  
2370 2375 2379

Lys Thr Gln Cys Cys Asp Glu Tyr Glu Cys Ala Cys Asn Cys Val Asn  
2385 2390 2395 2400

Ser Thr Val Ser Cys Pro Leu Gly Tyr Leu Ala Ser Ala Val Thr Asn  
2405 2410 2415

Asp Cys Gly Cys Thr Thr Thr Thr Cys Phe Pro Asp Lys Val Cys Val  
2420 2425 2430

His Arg Gly Thr Ile Tyr Pro Val Gly Gln Phe Trp Glu Glu Ala Cys  
2435 2440 2445

Asp Val Cys Thr Cys Thr Asp Leu Glu Asp Ser Val Met Gly Leu Arg  
2450 2455 2460

Val Ala Gln Cys Ser Gln Lys Pro Cys Glu Asp Asn Cys Leu Ser Gly  
2465 2470 2475 2480

Phe Thr Tyr Val Leu His Glu Gly Glu Cys Cys Gly Arg Cys Leu Pro  
2485 2490 2495

Ser Ala Cys Glu Val Val Thr Gly Ser Pro Arg Gly Asp Ala Gln Ser  
2500 2505 2510

His Trp Lys Asn Val Gly Ser His Trp Ala Ser Pro Asp Asn Pro Cys  
2515 2520 2525

Leu Ile Asn Glu Cys Val Arg Val Lys Glu Glu Val Phe Val Gln Gln  
2530 2535 2540

Arg Asn Val Ser Cys Pro Gln Leu Asn Val Pro Thr Cys Pro Thr Gly  
2545 2550 2555 2560

Phe Gln Leu Ser Cys Lys Thr Ser Glu Cys Cys Pro Thr Cys His Cys  
2565 2570 2575

His Ile Leu Ala Cys Leu Leu Asn Gly Thr Leu Ile Gly Ile Gly  
2580 2585 2590 2595

Lys Phe Leu Met Ile Asp Val Cys Thr Thr Tyr Asn Tyr Thr Val Ile  
2600 2605 2610

Val Gly Val Ile Ser Gly Phe Lys Leu Glu Gly Arg Lys Thr Thr Cys  
2615 2620 2625

His Ala Tyr Ile Leu Gly Tyr Tyr Ile His Lys Asn Ile Gly Ile Tyr

Ser His Phe Cys Lys Val Asn Glu Arg Gly Glu Tyr Ile Trp Glu Lys  
2675 2680 2685

Arg Val Thr Gly Cys Pro Pro Phe Asp Glu His Lys Cys Leu Ala Glu  
2690 2695 2700

Gly Gly Lys Ile Met Lys Ile Pro Gly Thr Cys Cys Asp Thr Cys Glu  
2705 2710 2715 2720

Glu Pro Glu Cys Lys Asp Ile Ile Ala Lys Leu Gln Arg Val Lys Val  
2725 2730 2735

Gly Asp Cys Lys Ser Glu Glu Glu Val Asp Ile His Tyr Cys Glu Gly  
2740 2745 2750

Lys Cys Ala Ser Lys Ala Val Tyr Ser Ile His Met Glu Asp Val Gln  
2755 2760 2765

Asp Gln Cys Ser Cys Cys Ser Pro Thr Gln Thr Glu Pro Met Gln Val  
2770 2775 2780

Ala Leu Arg Cys Thr Asn Gly Ser Leu Ile Tyr His Glu Ile Leu Asn  
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attgtgtgt acgggtggac cgaccacagc gtctgcg 218

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Arg Thr Leu Cys Thr Cys Val Gln Gly Met Gln Cys Pro Cys Ala Val  
35 40 45

Leu Leu Glu Tyr Ala Arg Ala Cys Ala Gln Gln Gly Ile Val Leu Tyr  
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Gly Thr Thr Arg His Arg Thr Tyr Arg

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gennnnnnnnng c

11

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<400> 25

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gacacatctc cagctagat

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<400> 29

gacacatctc cagctagat

22